SILICON AUSTRIA LABS (SAL) IS THE BRIDGE FROM SCIENCE TO INNOVATION

FROM IDEA TO INNOVATION

SILICON Austria Labs SAL is a Hub Innovation research center and pioneer in Electronic-Based Systems (EBSS) in direct cooperation with industry and academia partners. SAL projects their ideas into innovation by conducting cutting-edge research across the entire HVC value chain.

BRIDGING GAPS BETWEEN KEY PLAYERS & TECHNOLOGIES

SAL is the key innovation player for the semiconductor ecosystem in Austria and in Europe. It supports and strengthens the entire semiconductor ecosystem in Austria, which is one of the most competitive and successful in Europe.

INNOVATION ALONG THE EBS VALUE CHAIN

The research units at SAL cover the entire entrepreneurial spectrum of the HVC: from microelectronics to market, in order to ensure strategic innovation along the entire value chain. SAL’s research and development involves most industry stakeholders, aiming to drive high-impact research in the field of:

- Sensor Systems
- Sensor Actuators
- RF Systems
- Integration Technologies
- Power Electronics

SAL lays the basis for the Electronic-Based Systems of the future with major economic impact on products and processes in various application fields.

SAL PROGRAMS

- Program 1: Virtual prototyping and model-based design with x-in-the-loop testbeds
- Program 2: Micro- & nano-systems and beyond-CMOS process technologies
- Program 3: Heterogeneous “More-than-Moore” integration, packaging and analog front-ends IC co-design
- Program 4: ML aided signal processing and integrated circuit design for power and complexity reduction
- Program 5: Dependable embedded SW/HW for smart & distributed systems
- Program 6: Secure wireless sensor & actuator communications networks
- Program 7: Real-time perception, reasoning, decision-making and control for connected autonomous systems
- Program 8: Applied sensor systems
- Program 9: RF systems for sensing and communications
- Program 10: Power converter systems

SAL SITES

The SAL facilities are strategically located in Vienna, Austria and driven by the Research and Development Association SAL, Austria’s leading HVC research hub, with its research and communication partners. The research programs at the research center, innovation processes will be accelerated significantly.

SAL SHAREHOLDERS

- 51% Republic of Austria
- 10%thinX2 Office/Technology Group
- 10%other Universities
- 40%ThinX2 Austria

www.silicon-austria-labs.com
contact@silicon-austria.com

power your research with SILICON AUSTRIA LABS

Designed with clear long-term perspective (up to 10 years), SAL has the unique capability to leverage the strength of one of the top 100 universities in the world and the leading companies in the field of embedded systems and microelectronics.
**RESEARCH PARTNERSHIP FACILITATED BY TAILORED BUSINESS MODELS**

SAL offers tailored business models, tailored to your specific research objectives.

Cooperative research offers unique project opportunities for all industry partners with a TRL ranging from TRL 0 (basic research) to TRL 8 (full system complete and qualified).

**CONCRETE BENEFITS FOR COOPERATION PARTNER**

- Faster, larger downstream projects
- Attractive financing with top 50% of research
- Tailored IPR according to consortium, project specific
- Preparation of you for future European tenders

Cooperative project applications can be found together with SAL at Sal-solutions.eu.

**SAL COVERING THE ENTIRE RESEARCH VALUE CHAIN**

### SAL Research Projects

- Competitive Research Projects (EU, national)
- Cooperative Research Projects (50/50 PPP)
- Contract Research Projects

### TRL Stages

- **TRL 1** Basic research
- **TRL 3** Experimental proof of concept
- **TRL 4** Validation: Small scale prototype in lab
- **TRL 5** Validation: Large scale prototype in relevant environment
- **TRL 6** Demo in relevant environment
- **TRL 7** Demo/system prototype in relevant environment
- **TRL 8** System complete and qualified

**HOW TO START A COOPERATION WITH SAL**

1. Connect with us through Europe’s leading aggregators.
2. Research on the projects, teams and services.
3. Contact us for a proposal.
4. When you decide to partner, sign a contract and start working.

**HOW TO START A PROJECT WITH SAL**

1. Read the opportunity info.
2. Contact us for project information.
3. Prepare a proposal.
4. When you decide to work, sign a contract and start working.

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**SAL**

SAL research is different ways with universal and open ICTs where SAL to face the future 4.0. Research, which can be seen within industry partners. The future is bright for SAL and their projects in Europe and beyond.

**In a few steps, the project is up and running.**

**UNFOLD THE FUTURE**

**IN ELECTRONIC BASED SYSTEMS**